

Release notes for ENDF/B Development n-090_Th_234
evaluation



April 26, 2017

- fudge-4.0 Warnings:

1. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.80%

2. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 1 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [nubar]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 (total): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 (total): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (n + Th234): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (n + Th234): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 10 (n + (Th234_e1 -> Th234 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.487353e-09) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 11 (n + (Th234_e2 -> Th234 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.692765e-09) is too small

11. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 13 (n + (Th234_e4 -> Th234 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (6.150193e-09) is too small

12. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 14 (n + (Th234_c -> Th234 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

13. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 15 (Th235 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

14. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 15 (Th235 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

15. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 16 (n + Th234 [angular distribution]): / Form 'eval': (Error # 1): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

16. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 17 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

17. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 18 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

18. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 19 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

19. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 20 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

- **fudge-4.0 Errors:**

1. ENDF format insists that all outgoing fission neutrons, delayed or otherwise, have spectra. For delayed neutrons this is tough.
Reading ENDF file: ../n-090_Th_234.endf (Error # 0): No delayed n dist

```
WARNING: More than one delayed fission neutron decay time but no MF = 5 data
```

2. Duplicate Eout in outgoing distribution
Reading ENDF file: ../n-090_Th_234.endf (Error # 1): Bad Eout

```
WARNING: skipping duplicate e_out = 4430250.0, i1 = 48 0 1e-05
```

3. Energy range of data set does not match cross section range
reaction label 5: n + (Th234_c -> Th234 + gamma) / Product: Th234_c / Decay product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (163702.0 -> 20000000.0) vs (110950.0 -> 20000000.0)
```

4. Energy range of data set does not match cross section range
reaction label 5: n + (Th234_c -> Th234 + gamma) / Product: Th234_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (163702.0 -> 20000000.0) vs (110950.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (110950.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (110950.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110950.0 -> 20000000.0)
```

5. Energy range of data set does not match cross section range
reaction label 5: n + (Th234_c -> Th234 + gamma) / Product: Th234_c / Decay product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (110950.0 -> 20000000.0)

6. Energy range of data set does not match cross section range
reaction label 5: n + (Th234_c -> Th234 + gamma) / Product: Th234_c / Decay product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (110950.0 -> 20000000.0)

7. Energy range of data set does not match cross section range
reaction label 5: n + (Th234_c -> Th234 + gamma) / Product: Th234_c / Decay product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110950.0 -> 20000000.0)

8. Calculated and tabulated Q values disagree.
reaction label 6: n[multiplicity:'2'] + Th233 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6241349.961639404 eV vs -6190270. eV!

9. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

10. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

11. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

12. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

13. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

14. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

15. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

16. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

17. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

18. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

19. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

20. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

21. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

22. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

23. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

24. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)
25. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)
26. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)
27. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)
28. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)
29. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)
30. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)
31. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)
32. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

33. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

34. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

35. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

36. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

37. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

38. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

39. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

40. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

41. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

42. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

43. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

44. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_r / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

45. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

46. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_s / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

47. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

48. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_t / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

49. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

50. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_u / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

51. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

52. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

53. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

54. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

55. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

56. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

57. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

58. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_y / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

59. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_z / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

60. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_z / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

61. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_aa / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

62. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_aa / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

63. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_ab / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

64. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_ab / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

65. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_ac / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

66. Energy range of data set does not match cross section range
reaction label 6: n[multiplicity:'2'] + Th233 + gamma / Product: gamma_ac / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6216950.0 -> 20000000.0)

67. Calculated and tabulated Q values disagree.
reaction label 7: n[multiplicity:'3'] + Th232 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11027736.86749268 eV vs -1.09767e7 eV!

68. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (11500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

69. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (11500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

70. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (11500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

71. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (11500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

72. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

73. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

74. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

75. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

76. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

77. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

78. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

79. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

80. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

81. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

82. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

83. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

84. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

85. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

86. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

87. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

88. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

89. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

90. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

91. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

92. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

93. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

94. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

95. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

96. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

97. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

98. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

99. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

100. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

101. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

102. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

103. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_r / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

104. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

105. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_s / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
106. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
107. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_t / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
108. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
109. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_u / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
110. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
111. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
112. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
113. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

114. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
115. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
116. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
117. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_y / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
118. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_z / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
119. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_z / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
120. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_aa / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
121. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_aa / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
122. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ab / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

123. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ab / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
124. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ac / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
125. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ac / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
126. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ad / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
127. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ad / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
128. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ae / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
129. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ae / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
130. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_af / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
131. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_af / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

132. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ag / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

133. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ag / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

134. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ah / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

135. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ah / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

136. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ai / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

137. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ai / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

138. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_aj / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

139. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_aj / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

140. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ak / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

141. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_--ak / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
142. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_--al / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
143. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_--al / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
144. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_--am / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
145. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_--am / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
146. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_--an / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
147. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_--an / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
148. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_--ao / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
149. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_--ao / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

150. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ap / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
151. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ap / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
152. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_aq / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
153. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_aq / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
154. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ar / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
155. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ar / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
156. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_as / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
157. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_as / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
158. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_at / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

159. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_at / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
160. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_au / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
161. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_au / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
162. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_av / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
163. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_av / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
164. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_aw / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
165. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_aw / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
166. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ax / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
167. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ax / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)

168. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ay / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
169. Energy range of data set does not match cross section range
reaction label 7: n[multiplicity:'3'] + Th232 + gamma / Product: gamma_ay / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11024000.0 -> 20000000.0)
170. Calculated and tabulated Q values disagree.
reaction label 8: n[multiplicity:'4'] + Th231 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -17468024.98760986 eV vs -1.74169e7 eV!
171. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
172. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
173. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
174. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
175. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18000000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
176. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18000000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

177. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
178. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
179. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18000000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
180. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18000000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
181. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
182. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
183. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
184. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
185. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

186. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
187. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
188. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
189. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18000000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
190. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18000000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
191. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
192. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
193. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
194. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

195. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
196. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
197. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
198. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
199. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
200. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
201. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
202. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
203. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

204. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
205. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
206. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_r / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
207. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
208. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_s / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
209. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
210. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_t / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
211. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
212. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_u / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

213. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
214. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
215. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
216. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
217. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
218. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
219. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
220. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_y / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
221. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_z / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

222. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_z / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
223. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_aa / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
224. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_aa / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
225. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ab / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
226. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ab / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
227. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ac / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
228. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ac / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
229. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ad / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
230. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ad / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

231. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ae / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
232. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ae / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
233. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_af / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
234. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_af / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
235. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ag / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
236. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ag / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
237. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ah / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
238. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ah / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
239. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ai / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

240. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ai / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
241. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_aj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
242. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_aj / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
243. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ak / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
244. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ak / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
245. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_al / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
246. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_al / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
247. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_am / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
248. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_am / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

249. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_an / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
250. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_an / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
251. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ao / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
252. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ao / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
253. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ap / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
254. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ap / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
255. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_aq / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
256. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_aq / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
257. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ar / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

258. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_ar / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
259. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_as / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
260. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_as / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
261. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_at / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
262. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_at / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
263. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_au / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
264. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_au / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
265. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_av / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
266. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_av / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)

267. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_aw / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
268. Energy range of data set does not match cross section range
reaction label 8: n[multiplicity:'4'] + Th231 + gamma / Product: gamma_aw / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17492000.0 -> 20000000.0)
269. Calculated and tabulated Q values disagree.
reaction label 10: Th235 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 4379173.01159668 eV vs 4430250. eV!
270. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 7: n + (Th234_c -> Th234 + gamma) total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 42.40%
271. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 8: n[multiplicity:'2'] + Th233 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 100.00%
272. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 9: n[multiplicity:'3'] + Th232 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 99.99%
273. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 10: n[multiplicity:'4'] + Th231 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 50.37%
274. Calculated and tabulated Q values disagree.
fissionComponent label 0: /reactionSuite/fissionComponents/fissionComponent[@label='0'] (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 218949735566.2711 eV vs 1.782169e8 eV!
275. Calculated and tabulated Q values disagree.
fissionComponent label 1: /reactionSuite/fissionComponents/fissionComponent[@label='1'] (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 218949735566.2711 eV vs 1.782169e8 eV!

276. Calculated and tabulated Q values disagree.
fissionComponent label 2: /reactionSuite/fissionComponents/fissionComponent[@label='2']
(Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 218949735566.2711 eV vs 1.782169e8 eV!

277. Calculated and tabulated Q values disagree.
fissionComponent label 3: /reactionSuite/fissionComponents/fissionComponent[@label='3']
(Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 218949735566.2711 eV vs 1.782169e8 eV!

278. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 16 (n + Th234 [angular distribution]): / Form 'eval': / LegendreLValue L=1 vs 1 (Error # 0): Bad evs

WARNING: 11 negative eigenvalues! Worst case = -2.758957e-04

- njoy2012 Warnings:

1. Evaluation has no resonance parameters given
unresr...calculation of unresolved resonance cross sections (0): No RR

---message from unresr---mat 9046 has no resonance parameters
copy as is to nout

2. In some evaluations, the partial fission reactions MT=19, 20, 21, and 38 are given in File 3, but no corresponding distributions are given. In these cases, it is assumed that MT=18 should be used for the fission neutron distributions.
heatr...prompt kerma (0): HEATR/hinit (3)

---message from hinit---mt19 has no spectrum
mt18 spectrum will be used.

3. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (1): HEATR/hinit (4)

---message from hinit---mf6, mt 16 does not give recoil za= 90233
one-particle recoil approx. used.

4. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (2): HEATR/hinit (4)

---message from hinit---mf6, mt 17 does not give recoil za= 90232
one-particle recoil approx. used.

5. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (3): HEATR/hinit (4)

---message from hinit---mf6, mt 37 does not give recoil za= 90231
one-particle recoil approx. used.

6. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (4): HEATR/hinit (4)

```
---message from hinit---mf6, mt 51 does not give recoil za= 90234
one-particle recoil approx. used.
```

7. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (5): HEATR/hinit (4)

```
---message from hinit---mf6, mt 52 does not give recoil za= 90234
one-particle recoil approx. used.
```

8. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (6): HEATR/hinit (4)

```
---message from hinit---mf6, mt 53 does not give recoil za= 90234
one-particle recoil approx. used.
```

9. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (7): HEATR/hinit (4)

```
---message from hinit---mf6, mt 54 does not give recoil za= 90234
one-particle recoil approx. used.
```

10. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (8): HEATR/hinit (4)

```
---message from hinit---mf6, mt 91 does not give recoil za= 90234
one-particle recoil approx. used.
```

11. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (9): HEATR/hinit (4)

```
---message from hinit---mf6, mt102 does not give recoil za= 90235
photon momentum recoil used.
```

12. There is a problem with the fission energy release.
heatr...prompt kerma (16): HEATR/nheat (3)

```
---message from nheat---changed q from 1.782169E+08 to 1.717882E+08
for mt 18
```

13. Evaluation has no resonance parameters given
purr...probabalistic unresolved calculation (0): No RR

```
---message from purr---mat 9046 has no resonance parameters
copy as is to nout
```

14. The number of coefficients was too large in a covariance
covr...process covariance data (1): Cov:Too many coeff.

```
---message from matshd--- 160 coefficients > 2
reset and continue
```

- **xsectplotter Errors:**

1. ENDF format insists that all outgoing fission neutrons, delayed or otherwise, have spectra. For delayed neutrons this is tough.
(Error # 2): No delayed n dist

WARNING: More than one delayed fission neutron decay time but no MF = 5 data

2. Duplicate Eout in outgoing distribution
(Error # 3): Bad Eout

WARNING: skipping duplicate e_out = 4430250.0, i1 = 48 0 1e-05